

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A disc Disc brake (10), comprising having two brake shoes (12, 14),
a brake disc having two opposite sides;
two brake shoes, which for generating a clamping force (A, A') are pressable against both sides of a the brake disc; (16), and
an actuator device (26) for actuating at least one of the brake shoes (12, 14),
shoes; and
~~characterized in that~~ at least one force transducer (42) is disposed in a first force transmission path (C) between the actuator device (26) and at least one of the brake shoes (12, 14)., wherein a maximum component of force acting upon the force transducer upon generating of the clamping force is limited.

2. (Currently Amended) The disc Disc brake according to claim 1,
~~characterized in that~~ wherein a force transmission device (50) is disposed between the at least one force transducer (42) and the at least one brake shoe (12, 14).

3. (Currently Amended) The disc Disc brake according to claim 2,
~~characterized in that~~ wherein the force transmission device (50) interacts in via a two-dimensional ~~manner~~ section with the at least one force transducer (42).

4. (Currently Amended) The disc Disc brake according to one of claims 1 to 3 claim 1,
~~characterized in that~~ wherein the at least one force transducer (42) is designed as a force-to-resistance transducer.

5. (Currently Amended) The disc ~~Disc~~ brake according to ~~claim 4~~ claim 1, ~~characterized in that~~ wherein the at least one force transducer (42) comprises a force-to-pressure transducer (~~60, 62, 64~~) and a pressure-to-resistance transducer (~~66~~) disposed functionally downstream of the force-to-pressure transducer (~~60, 62, 64~~).
6. (Currently Amended) The disc ~~Disc~~ brake according to claim 5, ~~characterized in that~~ wherein the pressure-to-resistance transducer (~~66~~) is manufactured by single-chip technology.
7. (Currently Amended) The disc ~~Disc~~ brake according to ~~one of claims 2 to 6~~ claim 2, ~~characterized in that~~ wherein the at least one force transducer (42) has a chamber (64), which is filled with a fluid and sealed by a diaphragm (62), which interacts with the force transmission device (50).
8. (Currently Amended) The disc ~~Disc~~ brake according to ~~one of claims 1 to 7~~ claim 2, ~~characterized in that~~ wherein between the actuator device (26) and at least one of the brake shoes (12, 14) a second force transmission path (~~D~~) is provided, which bypasses the at least one force transducer (42).
9. (Currently Amended) The disc ~~Disc~~ brake according to claim 8, ~~characterized in that~~ wherein the second force transmission path (~~D~~) ~~may be~~ is activated when a force threshold value is exceeded.
10. (Currently Amended) The disc ~~Disc~~ brake according to claim 9, ~~characterized in that~~ wherein at least the forces exceeding the force threshold value are transmissible via the second force transmission path (~~D~~).

11. (Currently Amended) The disc ~~Disc~~ brake according to ~~one of claims 8 to 10~~
claim 8,
~~characterized in that~~ wherein the force transmission device (50) is disposed at
least in sections both in the first force transmission path (C) and in the second
force transmission path (D).
12. (Currently Amended) The disc ~~Disc~~ brake according to ~~one of claims 8 to 11~~
claim 8,
~~characterized in that~~ wherein the force transmission device (50) has control
~~means (56)~~ elements for activating the second force transmission path (D).
13. (Currently Amended) The disc ~~Disc~~ brake according to claim 12,
~~characterized in that~~ wherein the control ~~means~~ elements for activating the
second force transmission path (D) are formed by a first stop (56) of the force
transmission device (50), which first stop interacts with a second stop (57),
which is coupled in a force transmission direction rigidly to a component (40)
of the actuator device (26).
14. (Currently Amended) The disc ~~Disc~~ brake according to ~~one of claims 2 to 13~~
claim 2,
~~characterized in that~~ wherein the force transmission device (50) comprises a
piston (52) movable relative to the at least one force transducer (42).
15. (Currently Amended) The disc ~~Disc~~ brake according to ~~one of claims 2 to 14~~
claim 2,
~~characterized in that~~ wherein the force transmission device (50) comprises an
elastic reaction element (56) movable relative to the at least one force
transducer (42).

16. (Currently Amended) The disc Disc brake according to claim 15,
~~characterized in that~~ wherein the reaction element (56) is disposed in the first
force transmission path (C) between ~~the~~ a moveable piston (52) and the at least
one force transducer (42).
17. (Currently Amended) The disc Disc brake according to ~~one of claims 1 to 16~~
claim 2,
~~characterized in that~~ wherein the actuator device (26) has a receiver (40) for the
at least one force transducer (42).
18. (Currently Amended) The disc Disc brake according to claim 17,
~~characterized in that~~ wherein the receiver (40) for the at least one force
transducer (42) has a guide (48) for the force transmission device (50).
19. (Currently Amended) The disc Disc brake according to claim 18,
~~characterized in that~~ wherein the guide (48) for the force transmission device
(50) has at least one recess (58) for receiving in sections ~~the~~ an elastic reaction
element (56) in the event of its elastic deformation.
20. (Currently Amended) The disc Disc brake according to ~~one of claims 17 to 19~~
claim 17,
~~characterized in that~~ wherein the actuator device (26) comprises an at least
translationally movable actuator element (30), which is coupled in a force
transmission direction rigidly to the receiver (40).
21. (Currently Amended) The disc Disc brake according to claim 20,
~~characterized in that~~ wherein the translationally movable actuator element (30)
has a hollow space, into which the receiver (40) extends at least in sections.

22. (Currently Amended) The disc ~~Disc~~ brake according to ~~one of claims 1 to 21~~
claim 1,
~~characterized in that wherein~~ the actuator device (26) comprises a nut/spindle
arrangement (28, 30).
23. (Currently Amended) The disc ~~Disc~~ brake according to claim 22,
~~characterized in that wherein a~~ the translationally movable actuator element
(30) is a component of the nut/spindle arrangement (28, 30) or is coupled
rigidly to a component of the nut/spindle arrangement (28, 30).
24. (Currently Amended) The disc ~~Disc~~ brake according to ~~one of claims 1 to 23~~
claim 1,
~~characterized in that wherein~~ the actuator device (26) converts a driving motion
of a motor into an actuating motion for actuating at least one of the brake shoes
(12, 14).
25. (Currently Amended) The disc ~~Disc~~ brake according to ~~one of claims 1 to 24~~
claim 1,
~~characterized in that wherein~~ the actuator device is hydraulically actuatable.
26. (New) A disc brake comprising
a brake disc;
two brake shoes pressable against the brake disc for generating a clamping
force;
an actuator for actuating at least one of the brake shoes;
a force transducer arranged between the actuator and at least one of the brake
shoes; and
a force limiting assembly for limiting the force acting upon the force transducer
upon generation of the clamping force .

27. (New) A disc brake comprising
a brake disc;
two brake shoes pressable against the brake disc for generating a clamping force;
an actuator for actuating at least one of the brake shoes;
a first force transmission path arranged between the actuator and at least one of the brake shoes;
a force sensing element disposed in the first force transmission path; and
a second force transmission path arranged between the actuator and at least one of the brake shoes, the second force transmission path bypassing the force sensing element.
28. (New) The disc brake of claim 27,
further comprising an activating assembly for activating the second force transmission path when a predefined force threshold value is exceeded.